







MARYLAND & RARE BOOK ROOM UNIVERSITY OF MARYLAND LIBRARY

FIFTY-SEVENTH

ANNUAL REPORT

OF THE

President and Directors

TO THE

STOCKHOLDERS

OF THE

Baltimore & Ohio Railroad Co.

FOR THE YEAR ENDED 30th SEPTEMBER, 1883.

BALTIMORE:

PRINTED BY JOHN COX, 43 and 45 W. Pratt St.



FIFTY-SEVENTH

ANNUAL REPORT

OF THE

President and Directors

TO THE

STOCKHOLDERS

OF THE

Baltimore & Ohio Railroad Co.

FOR THE YEAR ENDED 30th SEPTEMBER, 1883.

BALTIMORE:
PRINTED BY JOHN COX, 43 and 45 W. Pratt St.



Fifty-Seventh Annual Report.

OFFICE OF THE

Baltimore and Ohio Railroad Company,

Baltimore, October 1, 1883.

The President and Directors submit to the Stockholders of the Baltimore and Ohio Railroad Company the following statement of its affairs for the fiscal year ended 30th September, 1883.

The Reports of the Treasury, Transportation, Road and Machinery Departments, and of the General Manager of the Trans-Ohio Divisions, are appended.

THE REVENUES.

THE REVENUES.		
The Revenues of the Main Stem, including the	ne Winches	ter
and Potomac, Winchester and Strasbur	g, the Str	as-
burg and Harrisonburg, the Metropolitan		
Washington City and Point Lookout, an		
set and Cambria Railroads, have been\$		
Of the Washington Branch	346,505	
6 Parkarshurg Branch		
Tarkersourg Drauen	738,527	
Central Onto Division	1,103,838	
Lake Effe Division	999,128	
" Chicago Division	1,878,167	22
" Wheeling, Pittsburgh and Baltimore		
Railroad	72,090	75
" Pittsburgh Southern Railroad from		
November 1, 1882	43,787	70
" Newark, Somerset and Straitsville	- //• - •	Ċ
Railroad	164,781	04
" Pittsburgh and Connellsville Railroad	101,101	01
	2,813,172	11
(Pittsburgh Division)	4,015,114	41
(II) / 1	10 500 007	0.0
Total\$		93
Showing an increase compared with 1882, of	1,355,962	
And, compared with 1881, an increase of	1,275,960	67
And, compared with 1880, an increase of	1,422,097	83

And, compared with 1879, an increase of.... 5,545,857 50

I.-OF THE MAIN STEM.

The assets and liabilities of the Company are shown in statement A of the Treasurer. The earnings and working expenses are shown in statement B.

The following analytic statement is given, in order to furnish particulars of expenses in comparison with the two preceding years.

MAIN STEM.

Statement of the Earnings and Working Expenses for the Fiscal Years 1881, 1882 and 1883, including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Lookout, and the Somerset and Cambria Railroads.

	1881.	1882.	1883.
EARNINGS.	\$11,122,259 56	\$10,556,569 60	\$11,579,839 25
Expenses.			
General Expenses	\$210,627 92	\$198,227 40	\$200,733 89
Losses by Accidents, &c	45,833 47	72,048 95	56,609 68
Expenses of Transportation,	,	,	,
including Express	2,156,414 44	2,258,207 54	2,486,047 39
Repairs of Railway	1,083,969 53	1,003,249 36	796,575 85
Repairs of Water Stations.	16,551 86	10,590 80	13,039 13
Repairs and Construction of Depots	141,236 90	154,439 97	186,663 06
Repairs of Bridges	74,691 24	55,788 59	58,574 31
Repairs of Telegraph Lines.	25,065 36	39,204 30	76,781 20
Repairs of Stationary Ma-	,	,	
chinery	98,201 56	95,754 98	118,276 66
Watching Cuts	34,854 32	31,678 99	30,546 15
Watching Tunnels	4,406 77	4,551 90	5,451 67
Watching Bridges	18,928 71	18,663 16	18,736 58
Pumping Water Repairs of Locomotives	29,386 82 686,795 58	28,380 57 654,236 92	28,217 28 624,146 36
Repairs of Passenger Cars.	236,511 93	235,533 16	299,386 71
Repairs of Burden Cars	911,995 82	675,248 49	709,028 67
Cleaning Engines and Cars	81,557 80	88,908 82	92,415 36
Contingent Expenses of the			
Machinery Department	9,786 57	11,574 48	7,186 12
Fuel	386,893 87	327,305 20	319,143 36
Preparing Fuel and Filling	01 022 04	20,032 41	20,096 37
Tenders	21,933 24	20,052 41	20,090 37
	\$6,275,643 71	\$5,983,625 99	\$6,147,655 80
Famings move than Ev			
Earnings more than Expenses	\$4,846,615 85	\$4,572,943 61	\$5,432,183 45
Working Expenses	56.42 per ct.	56.68 per ct.	53.08 per ct.

It is shown that the earnings of the Main Stem and the Branches stated, in comparison with the fiscal year 1882, have increased \$1,023,269.65, and the working expenses have increased \$164,029.81, making a comparative increase of the net profits of \$859,239.84.

The expenses of working and keeping the roads and machinery in repair amounted to \$6,147,655.80, being 53.08 per cent. upon the earnings, showing a decrease of 3.60 per cent. compared with the previous year, and of 3.34 per cent. compared with 1881. It will be seen in the statement of the gross earnings and expenses of all lines and branches operated by the Company, that the net results for the fiscal year showed an increase and gain over 1882 of \$1,251,161.17.

Semi-annual cash dividends of five per cent. upon the capital stock were paid on the 1st of November, 1882, and on the 16th of May, 1883.

The Profit and Loss Account shows an increase for the past fiscal year of \$1,855,821.05. It will be seen by this account that the Surplus Fund, which represents invested capital derived from net earnings, and which is not represented by either stock or bonds, now amounts to \$45,763,479.89.

To meet losses that it was expected would be made, in connection with the re-organization of the Marietta and Cincinnati Company, (now known as the Cincinnati, Washington and Baltimore Railway Company,) and which, realized and estimated, now amount to \$6,906,152.28, and those incurred in aiding the re-organization of the Indianapolis, Cincinnati and Lafayette Company, \$73,245.75, the following profits and investments were reserved, and have been heretofore held in "Outstanding Accounts and Loans," and not credited to the Profit and Loss Account, namely: the profits on the Pittsburgh and Connellsville Loan Guarantee Account; on the Securities of the Virginia Midland Railway Company,

and on the West Youghiogheny Railroad, and additional investments in the Hempfield and the Baltimore and Ohio and Chicago Railroads. In addition to crediting the sums of these accounts for the purpose of meeting the remainder of those losses, \$854,846.60 have been charged in the Profit and Loss Account, thus reducing the earnings of the Surplus Fund for this fiscal year, from \$2,710,667.65 to \$1,855,821.05.

The heavy losses made through the assistance rendered for many years to the Marietta and Cincinnati Road to secure the completion and effective working of that important line, great as they have been, it is believed will be justified by the results which will be realized in promoting the trade and intercourse between Baltimore and Washington, and the City of Cincinnati and the entire Southwest. The extraordinary advantages of this short line to and from Cincinnati and all the regions connected with that important centre of commerce and manufactures, cannot fail to be recognized when the distances between Cincinnati and Baltimore by this route and by other routes to New York are compared. Whilst the distance between Cincinnati and Baltimore by the Cincinnati, Washington and Baltimore Railway, the Parkersburg Branch and the Main Stem of the Baltimore and Ohio is 579 miles, the distance to New York by the New York Central, namely, via Buffalo and Albany is 868 miles, making the difference in favor of Baltimore as thus compared with New York 289 miles, a difference so striking as to be controlling in the ultimate direction of trade alike for the ordinary interchanges of traffic and for imports and exports.

Within a brief period an additional line from Columbus to Clinton Valley on the Cincinnati, Washington and Baltimore Road will be open, to be operated in connection with the Central Ohio and the Ohio and Baltimore Short Line and the Pittsburgh Southern Road, making a direct and excellent

route for passengers and freight between Pittsburgh and the Pittsburgh and Connellsville Road and the city of Cincinnati and the Southwest.

The exceptional and highly conservative system of the Baltimore and Ohio Company, without precedent in America or Europe, by which more than forty-five millions of dollars of net earnings, unrepresented by stock or bonds, have been invested, during a long series of years, in valuable improvements and extensions, in connecting lines, in the great iron bridges over the Ohio river, in elevators, wharves, piers, docks, terminal facilities, real estate, stations, etc., readily enables the Company to continue the payment of semi-annual dividends of five per cent. each on its capital stock, which amounts to only \$14,-783,700, a sum so limited as to present a marked contrast to that of all competing Trunk Lines. The Capital Stock of the New York, Lake Erie and Western Railroad is \$77,087,600; that of the New York Central and Hudson River Railroad \$89,428,300, and that of the Pennsylvania Railroad \$85,301,300. This satisfactory condition, under serious and prolonged competition and frequent unwise action of antagonistic interests, shows that the Company, whilst continuing to effect excellent results for all holding investments in its property, can maintain a just policy, protective alike of the interests of its terminal cities and the regions with which it is connected.

THE CITY FIVE MILLION LOAN.

This loan by the City of Baltimore was made under an ordinance passed on the twenty-seventh day of December, 1853, under which ten per cent., or \$500,000, was retained as a basis for a sinking fund, and ninety per cent. in city stock paid over to the Baltimore and Ohio Company at par. In consequence of the depression at the period during which this stock was sold, namely, from 1855 to 1859, inclusive,

the sales were made by the Baltimore and Ohio Company at a loss under par of \$173,506.10. Thus the Company, deducting the sum retained for sinking fund \$500,000, and the loss by the sale of the city bonds under par \$173,506.10, received from the loan only \$4,326,493.90. The Baltimore and Ohio Company not only made all the loss on the sale of this stock under par, but it also paid all the premiums, over par, on the purchases which were made for investment in city stock for the sinking fund, which premiums amounted to \$96,683.67. It is shown therefore that the City of Baltimore throughout has been fully protected from any possible loss, and the balance of the loan \$2,575,000, which is more than doubly secured, will be paid in full at the very time, namely, the first of January, 1890, when the obligation assumed by the City on behalf of the road will mature. City thus at an important period extended an accommodation to the Company, through the economies connected with which its dividends, of a very profitable character, on its \$3,250,000.00 stock in the Baltimore and Ohio Company have been paid, and the entire transaction has proved not only without loss to the City, but with important advantages both to it and the Company.

The payments for investments on account of the sinking funds, for the redemption of the Sterling Loans due in 1895, 1902, 1910 and 1927, during the year amounted to \$627,-395.09, which at \$4.84 per pound sterling, make £129,-627..1..9.

In accordance with the agreement with the City of Baltimore, the eighth annual payment, namely, \$40,000, of the principal of the bond for one million dollars given for the purchase of the interest of the City in the Pittsburgh and Connellsville Railroad Company, has been made, thus reducing this obligation to \$680,000.

The following statement shows the payments made and the increments in sinking funds during the fiscal year for account of the respective debts:

account of the respective debts.		
Increment of Sinking Funds for the redemp-		
tion of the Sterling Loans due in 1895, 1902		
	Ø570 161	90
and 1910	\$319,404	40
Payment on account of the principal of debt to		
City of Baltimore for the purchase of its in-		
terest in the Pittsburgh and Connellsville		
Company	40,000	00
The Pittsburgh and Connellsville Sinking Fund.		
The Baltimore and Ohio and Chicago Railroad	,	
Companies' Sinking Fund	47,930	21
• •	±1,550	OL
The Washington City and Point Lookout Rail-		
road Company's Sinking Fund	5,865	00
-	7	
Total	\$700,483	41
The following shows the aggregate of paymer	nts made	on
account of the principal, and the investments for s		
on account of the debts stated, namely:	8	
	@400 K00	0.0
Mortgage Loan redeemable in 1880	\$120,500	
Mortgage Loan redeemable in 1885	790,000	00
Bonds of the Northwestern Virginia Railroad		
Company, for \$500,000, endorsed by the		
Baltimore and Ohio Railroad Company,		
payable in 1885	360,000	00
	2,425,000	
	1,599,412	
	2,011,098	
	1,089,563	6.6
Sterling Loan for the Baltimore and Ohio and	242.25	
Chicago Companies, redeemable in 1927	259,661	16
Purchase of the interest of the City of Balti-		
more in the Pittsburgh and Connellsville		
Railroad Company	320,000	00
* "		

Sinking Fund of the Pittsburgh and Connells-		
ville Railroad Company	172,267	32
Sinking Fund of the Baltimore, Washington		
and Alexandria Branch of the Washington		
City and Point Lookout Railroad Company	44,044	24

Total......\$9,191,546 74

The coal trade of the Main Stem shows an aggregate of 2,585,011 tons, which includes 409,695 tons for the Company's supply. Of this quantity that transported for the public, delivered in Baltimore, is 1,660,350 tons, and that delivered at local and western points, 514,966 tons. In the fiscal year, 2,407,130 tons of coke and coal were transported on the Pittsburgh Division, and 684,696 tons of coal on the Trans-Ohio Divisions. The aggregate of coal and coke thus transported, including all Divisions, was 5,676,837 tons, showing an increase for the year of 29,821 tons, and an increase compared with 1881 of 1,137,210 tons, and with 1880 of 1,287,981 tons.

It is shown by the report of the Transportation Department that the tonnage of through merchandise East and West has been 2,108,325 tons, whilst in the preceding year it was 2,043,-227 tons. 702,975 barrels of flour and 12,831,761 bushels of grain were brought to Baltimore during the fiscal year, being an increase of 95,937 barrels of flour and 4,488,521 bushels of grain as compared with the preceding year. Of this aggregate of grain, 6,647,595 bushels were wheat, 4,944,736 bushels were corn and 1,150,680 bushels were oats, being an increase of 60,781 bushels of wheat, 4,353,017 bushels of corn and 47,066 bushels of oats. In live stock, the traffic has been 90,628 tons, an increase of 10,344 tons, and in lumber brought to Baltimore 94,266 tons, a decrease of 1,000 tons.

The tonnage of through merchandise East and West, was:

For	1871	.435,207	tons.	For	1877	1,047,645	tons.
66	1872	557,609	"	66	1878	1,149,499	166
66	1873	640,265	"	66	1879	1,425,629	66
66	1874	752,256	"	"	1880	1,980,397	44
66	1875	.872,101	64	"	1881	2,014,110	66
66	18761	,093,393	"	"	1882	2,043,227	66
	a	nd for 18	883	2,10	8,325	tons.	

The passenger earnings exhibit an increase from \$1,922,401.-17 in the preceding year, \$1,714,922.16 in 1881, and \$1,379,-990.34 in 1880, to \$2,020,284.00.

All the tracks of the Main Stem and of nearly all the Branches east of the Ohio river, are now laid with steel rails. The increased cost of steel substituted for iron rails has been uniformly charged to the Repair Account.

The condition of the road bed, tracks and engines has been brought to a high standard. A large number of new and superior sleeping coaches, parlor and thoroughfare cars have been added, replete with every modern improvement and convenience.

Attention is invited to the Reports of the Masters of Transportation, Road and Machinery, and of the General Manager of the Trans-Ohio Divisions, in which will be found much interesting information in regard to the working of the roads, the increase of plant and accommodations, and improvements made during the year.

30 engines were built at the Company's works at Mount Clare, namely, 22 of the largest class for freight service, and known as the Consolidation, each weighing 107,250 pounds, with cylinders 20x24 inches, 50 inch driving wheels, 8 drivers connected, with a 2-wheel pony truck; 3 for passenger service, with cylinders 19x24 inches and 3 with cylinders 18x24 inches, and 4 drivers of 69 inches each in diameter, weighing 91,000

pounds, and 2 for switching purposes, weighing 67,050 pounds with cylinders 17x24 inches and with 4 drivers of 50 inches each in diameter. Of the number constructed 22 engines, costing \$216,443.56 have been charged to Rolling Power, and 8 costing \$62,527.02, which replace that number withdrawn, because their capacity and patterns were not adapted to the present requirements of the service, have been charged to the Repair Account.

1981 cars have been built and rebuilt at Mount Clare and other shops of the Company. The cars thus built and rebuilt include 15 eight-wheeled passenger, 51 feet 81 inches long, with large windows and double blinds, finished in the interior with solid mahogany and bronze trimmings, decorated with oak head linings removable in sections, and furnished with three double-burner bronze lamps; one car for the postal service with six-wheeled trucks; one baggage, 51 feet 81 inches long, with standard trucks and all modern conveniences; 1332 house, 207 stock, 38 eight-wheeled iron coal, 10 express, 139 gondola, 2 hopper gondola, 217 side dump, 15 caboose, 3 flat bottom and one rigger's car. All the freight cars built have a capacity of 40,000 lbs., being nearly double that of the cars formerly used in the service. Of this aggregate of 1981 cars, 1442 being new and additional plant, and costing \$808,372.85, have been charged to Rolling Power. 539 cars were built to replace that number worn out and destroyed, and their cost \$162,-260.99, has been charged to the Repair Account. 200 house cars have been fitted with air brakes, and arranged with ventilation for the transportation of perishable freights, and 683 cars have received thorough repairs. The capacity of 194 cars has been increased from 26,000 to 40,000 pounds. The cost of these improvements as well as of the repairs, \$194,406.54, has been charged to the Repair Account. The fixed policy of the Company is to continue to add large and effective facilities, by which its increasing business, and the commerce of the port of Baltimore, can be thoroughly accommodated and promoted.

II.—OF THE WASHINGTON BRANCH.

The financial condition of the Washington Branch is shown by the statements of the Treasurer, D, E and F. It will be seen by statement E that the earnings were \$346,-505.27, showing a decrease of \$7,851.18 compared with the previous year. The expenditures charged, according to the system explained in previous annual reports, amount to \$124,257.52, being for improvements and for repairs of railway, depots, water stations and bridges, and for pumping water. The partial expenditures charged being deducted from the revenue stated, the sum of \$222,247.75 remains, an increase of net earnings, compared with the preceding year, of \$994.21. The expenditures upon the Washington Branch show a decrease compared with the preceding year of \$8,845.39. In order to make this Branch as perfect as possible, important improvements continue to be made, particularly in the substitution of stone for gravel ballast. It is designed to make the road free from dust and to perfect it in every practicable form. Semi-annual dividends of five per cent. upon the capital stock were paid on the 1st of November, 1882, and on the 17th of April, 1883.

Notwithstanding the excellent condition and satisfactory working of the Washington Branch, it will be observed that the net earnings compared with the preceding year show an increase of but \$994.21, whilst the Pennsylvania Company's line between Baltimore and Washington—the Baltimore and Potomac Road—for its last fiscal year shows an increase in its net earnings over the preceding

year of \$180,778.13 This comparative increase arises exclusively from the control the Pennsylvania Company at present has of the lines between Baltimore and Philadelphia and New York. The imperfect connections of the Pennsylvania Railroad Company for Philadelphia and New York business to and from the Washington Branch and the Main Stem of the Baltimore and Ohio Railroad Company, have caused a diminution of revenue instead of the heavy increase which should have been made. A large portion of the southern business of the Baltimore and Ohio Company has been thus practically cut off. Upon the completion of the Philadelphia Branch of the Baltimore and Ohio Road and the Baltimore and Philadelphia Railroad, the difficulties which are now caused by delayed and unsatisfactory connections will be removed, and the Baltimore and Ohio Company will then be restored, both for its southern and western business, to a position which will enable it to much more successfully compete for all northern and southern and western traffic. It is expected, on the opening of the Philadelphia Branch of the Baltimore and Ohio Road and of the Baltimore and Philadelphia Railroad, that the time between Baltimore and Philadelphia will be reduced to two hours, between Washington and Philadelphia to three hours, between Baltimore and New York to four hours, and between Washington and New York to five hours. present passengers between Baltimore and Washington are transported by the quick trains of the Baltimore and Ohio Company in fifty minutes, and it is determined to reduce the time of these trains on the next schedule to forty-five minutes. Thirty-eight passenger trains are now run between Baltimore and Washington daily.

Much improved arrangements will also be made for the crossing of passengers over the Hudson river. It is antici-

pated that the system for the transfer of passengers at Baltimore, between Locust Point and Canton, over the Patapsco river, will be adopted for the transfer between the Jersey shore and New York, namely, that all cars with passengers will be transferred upon suitable steamers so that the passengers will not leave the cars until landed on Manhattan Island. The public will thus, as in many other forms, be greatly benefited by the construction of this important competing road, whilst at the same time it, in a greater degree, will promote the local interests of Baltimore, Washington and Philadelphia, and of the States of Maryland, Delaware and Pennsylvania.

In 1882, the Virginia Midland Company purchased the one-half interest in the tugs and barges previously owned by the Baltimore and Ohio Company, and used for the transfer of freight over the Potomac River between Alexandria and Shepherd During the fiscal year 35,789 tons of freight have been transferred from Shepherd to Alexandria and 25,245 tons from Alexandria to Shepherd with this plant. By the use of this relatively inexpensive route, as compared with that by the long bridge over the Potomac and through Washington, a material distance can be saved. By this route, when proper arrangements are made, the time now required for the transportation of passengers between the north and south will be reduced one hour.

III.—OF THE PARKERSBURG BRANCH RAILROAD COMPANY.

Statement G of the Treasurer shows that the earnings of this road for the fiscal year were \$738,527.26, and the working expenses \$478,465.76, showing net \$260,061.50. The earnings were \$113,861.96 more than in the previous year, and the expenses decreased \$38,128.67, showing net increase compared with the previous year of \$151,990.63.

The decreased expenditures resulted largely from the use of steel rails upon the entire line.

The aggregate earnings, working expenses, and net results of the Main Stem, including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Lookout and the Somerset and Cambria Railroads; of the Washington Branch and the Parkersburg Branch Railroads; the Central Ohio, Lake Erie, Chicago and Pittsburgh Divisions; the Wheeling, Pittsburgh and Baltimore, and the Newark, Somerset and Straitsville Railroads, for the fiscal year, and of the Pittsburgh Southern Railroad from November 1, 1882, were, viz.:

	Earnings.		Expenses	s.	Net Earnings.
Main Stem, including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Look out and the Somerset and Cambria Railroads. Washington Branch. Parkersburg Branch. Central Ohio Division. Lake Erie Division. Chicago Division Pittsburgh Division. Wheeling, Pittsburg and Baltimore Railroad. Pittsburgh Southern Railroad, from Nov. 1, 1882.	\$11,579,839 346,505 738,527	25 27 26 65 38 22 41	\$6,147,655 124,257 478,465 716,050 707,347 1,304,664 1,334,897 40,070 35,336	80 52 76 21 22 10 55	\$5,432,183 45 222,247 75 260,061 50 387,788 44 291,781 16 573,503 12 1,478,274 86 32,020 5 3 8,450 78
Newark, Somerset and Straitsville Railroad	164,781	04	145,269	39	19,511 65
Working Exp's 55.89 per ct.	\$19,739,837	$\overline{93}$	\$11,034,014	69	\$8,705,823 24

The net earnings of the Chicago Division, of the Wheeling, Pittsburgh and Baltimore Railroad Company, and of the Lake Erie and Central Ohio Divisions, have been credited to the accounts for interest of those Companies.

The aggregate working expenses of the Main Stem, with all Branches and Divisions, were 55.89 per cent. of the whole

gross revenues, being	3.55 per cent.	less than	the preced-
ing year, and 5.80 pe	r cent. less than	1881.	

The net earnings of the Main Stem, including all Branches	•
and Divisions, are	\$8,705,823.24
The net earnings for 1882 were	7,454,662.07
Showing an increased net result, for the past as compared	
with the preceding year of	\$1,251,161.17

The condition of all our lines, their roadbeds, tracks, and structures, has not only been fully maintained but continuously and permanently improved.

THE PITTSBURGH AND CONNELLSVILLE RAILROAD.

The earnings for the year ended September
30, 1883, were \$2,813,172 41
The working expenses for the same period,
were 1,334,897 55
being 47.45 per cent.
Showing net earnings
The earnings were \$166,616.86 less than those of the pre-
vious year, and the expenses decreased \$102,766 74, showing
net decrease compared with the preceding year of \$63,-
850.12. The decrease in the ratio of working expenses
has been $\frac{7.9}{100}$ of 1 per cent. as compared with the preceding
year.
Net earnings
After paying the interest on the
\$4,000,000, 7 per cent. first
mortgage bonds\$280,000 00
the interest on the Turtle Creek
bonds 19,647 00
the interest on the Sterling Con-
solidated Mortgage bonds377,222 •04
and the interest on the amount
held in the Sinking Fund 4,856 43
and for the construction of 25.4

making...... 1,184,938 30

there remains an excess of net earnings of.... \$293,336 56 which has been credited on account of cash advances and interest thereon made by the Baltimore and Ohio Railroad Company to the Pittsburgh and Connellsville Railroad Company.

BALTIMORE AND OHIO AND CHICAGO RAILROAD COMPANIES.

69.46 per cent., being 4.15 per cent. less

than the preceding year

The surplus for credit to the account of this

The earnings were \$186,160.65 more than in the previous year, whilst the expenses increased \$59,064.09, showing a comparative increase of \$127,096.56.

The interest paid upon the five per cent. Sterling Loan of £1,600,000 taken for account of these Companies, amounted during the year to \$388,956.75 and the taxes to \$48,012.56. The taxes paid, \$48,012.56, being deducted from the net earnings, \$573,503.12, leave \$525,490.56, which have been credited in the Interest Account of the Main Stem, in which is charged the interest paid for the Baltimore and Ohio and Chicago Railroad Companies' Loan of 1927.

NEW LINE BETWEEN BALTIMORE AND PHILADELPHIA.

The Baltimore and Ohio Railroad Company, under resolutions adopted unanimously by the stockholders, is building the Philadelphia Branch from a point of connection with its Main Stem to the northern boundary line of Cecil County in the State of Maryland, where it connects with the road which the Baltimore and Philadelphia Railroad Company is constructing through Delaware by way of Wilmington to and into the City of Philadelphia. The Railroad of the latter Company is being built under a contract between it and the Baltimore and Ohio Company, which secures to the Baltimore and Ohio Railroad Company all the first mortgage 41 per cent. bonds of the Baltimore and Philadelphia Railroad Company. These bonds of the Baltimore and Philadelphia Railroad Company, with other securities, have been placed in the hands of Trustees as security for the loan of £2,400,000. This loan, issued by the Baltimore and Ohio Railroad Company for the construction of the road between Baltimore and Philadelphia, is payable in 1933, bears 4\frac{1}{2} per cent. interest per annum payable semi-annually in London, and has been negotiated at par.

PITTSBURGH SOUTHERN RAILROAD.

10

ıt-

During the fiscal year the Pittsburgh Southern Narrow Gauge Railroad, extending from Washington, Pa. to Pittsburgh, $37\frac{1}{2}$ miles, was purchased. The gauge of that portion of the line in Pennsylvania between Washington and Finleyville, $17\frac{1}{4}$ miles, has been increased in width from 3 feet to the standard gauge 4 feet $8\frac{1}{2}$ inches, and a new line, $15\frac{3}{4}$ miles in length, constructed between Finleyville and Glenwood on the Pittsburgh Division. The work has been well and substantially done, the new portion of the line having

been laid with steel rails of 60 pounds weight per yard. This line has been opened for traffic since 1st August, affording a short and effective outlet from Pittsburgh and the Pittsburgh Division to the West via Washington, Pa., Wheeling and the Trans-Ohio Divisions. The Company is thus enabled to transport to the western cities coke, gas coal and the manufactured products of Pittsburgh which have heretofore been transferred at Pittsburgh to competing lines for transportation to the west. The value and effectiveness of the line has already been fully demonstrated by the large traffic offering, not only westbound from the coke and coal regions and Pittsburgh, but also in grain and provisions from Chicago and other western cities, and in iron ore from Sandusky to Pittsburgh and other manufacturing centres in western Pennsylvania.

The Wheeling, Pittsburgh and Baltimore Division between Washington, Pa., and Wheeling, 32 miles, has been much improved in order to meet the requirements of this large and additional traffic.

VALLEY RAILROAD EXTENSION TO LEXINGTON.

All of the graduation, bridging and masonry on the Valley Railroad between Staunton and Lexington, a distance of 36 miles, has been completed, and all but four miles of the track has been laid. This, it is expected, will be finished and the road opened for business before November 1st. The line has been well and substantially built and laid with steel rails. This line will form at Lexington a closely co-operative connection with the Richmond and Allegheny Railroad for Lynchburg and Richmond, and it is expected that a large traffic in iron ore from the James River ore beds to Pittsburgh and other points, and in coke from the Connellsville region to Lynchburg, &c., will be transported, in addition to a traffic in live stock, grain, merchandise and miscellaneous freights be-

tween southern and eastern Virginia and Baltimore and places reached by the lines of the Baltimore and Ohio Railroad Company.

The Valley Railroad as now constituted, embraces the line from Harrisonburg to Staunton, 26 miles, and Staunton to Lexington, 36 miles, being 62 miles, and by its direct line from Harrisonburg via Strasburg to Winchester, thence continuing by the Winchester and Potomac Road, leased and worked by the Baltimore and Ohio Company, to Harper's Ferry, and by the Main Stem from Harper's Ferry to Baltimore, presents a superior line of 243 miles between Lexington and Baltimore, and by the Metropolitan Branch of 217 miles between Lexington and the National Capital. This line will doubtless command a large business, and lead to much closer relations and more extended intercourse between the important regions traversed and Baltimore, both in passenger and freight interchanges.

THE SUMMER HOTELS IN THE ALLEGHENIES.

The increase in the accommodations of the Deer Park and Oakland Hotels, a statement of which was made in the last report, gave great satisfaction during the past season to numerous guests. The location of these hotels in the table lands of the Alleghenies, nearly 3,000 feet above the sea, furnishes admirable summer homes for visitors from the East, West, North and South. The climate and pleasant natural surroundings of these resorts are perhaps unexcelled in America or Europe. The twenty-four square miles of table lands upon the highest elevation of the Alleghenies, the streams from the eastern slope of which flow through the Potomac into the Chesapeake and Atlantic, and from the western slope through the Ohio and Mississippi rivers into the Gulf of Mexico, are constantly receiving additions to their permanent and especially their summer populations. This delightful region will doubtless become, as soon as more generally known, a leading summer resort. New roads and drives in the charming country adjacent to these mountain hotels have been continuously constructed, and the roads formedly made have been much improved. The great economy, comfort and rapidity with which these summer homes are reached from eastern and western cities and sections continue to secure a large and increasing travel.

BALTIMORE AND OHIO EMPLOYES RELIEF ASSOCIATION.

The operations of the Relief Association for the past fiscal year have continued to be most beneficial and useful to the employes of the Company. There has been paid for the benefit of members \$205,187.27 in 8824 payments, which added to the sum previously paid, makes a total of \$549,263.01 in 24,776 individual payments. The active membership is at present 15,989. Much attention has been given to sanitary conditions along the lines under the charge of the Company, and the results have been gratifying. The drainage of the road, the safety, cleanliness and ventilation of the shops, stations and other buildings, the improvement of the character of the water used for drinking purposes, and many minor features affecting the health and comfort of both the employes and patrons of the Company, have received thorough and effective attention Earnest efforts were made during the past season to prevent the spread of malarial and other diseases. Large quantities of the best remedies, under careful medical advice, were distributed with excellent results. During August last the permanent employes on the line under construction between Baltimore and Philadelphia who were in any manner hazardously employed were admitted to membership in the Association. The advantages offered by the Association are constantly becoming more appreciated, as is shown by the desire of many members to increase their interest by paying additional premiums for increased benefits, and to retain their membership after leaving the service of the Company.

The new features adopted, and which were explained in the last annual report, are much appreciated and approved. The amount received on deposit in the Savings Fund aggregates \$81,137.50. The greater portion of this sum has been invested in loans to members for the purchase and improvement of homesteads upon the lines of the Company. The facilities of the building feature, which was placed in practical operation in May last, have been fully taxed. Many employes have stated their desire to avail, during the next year, of the advantages offered by this system.

CHESAPEAKE AND DELAWARE SHIP CANAL.

The construction of this canal, so important for commercial as well as military and naval purposes, continues to attract great interest and attention. The appropriation made by Congress on the 2d of August, 1882, to complete the surveys for a ship canal to connect the Chesapeake and Delaware bays, has been expended as directed, in obtaining information which will enable the Secretary of War to decide which of the routes suggested is the best. In view of the increased advantages of the port of Baltimore, in connection with the deepening of the channel for the use of the country, the early construction of this canal becomes of still greater importance. The saving of 200 miles distance between Baltimore and ports, as well as between Baltimore and the northern ports of Europe, will cause great economies in the cost of transportation of freight for a large portion of the Middle, North-Western, Western, South-Western and Southern States.

The great importance of this canal in case of foreign war is commanding increased attention, as vessels used in defending Washington and the Potomac, Baltimore and the Chesapeake,

and Philadelphia and the Delaware, could be concentrated with great rapidity for the protection of any one of these most important cities and regions. The prevention of the burning and destruction of either the National Capital, or Baltimore, or Philadelphia, by such rapid concentration of naval forces. would make the cost of this canal comparatively insignificant. As it is the policy of the United States to maintain only a small and inexpensive navy, such a permanent and effective system of protection must continue to secure additional and earnest approval and support. As during the past year, with reduced crops, 26,000,000 bushels of grain were exported from Baltimore, and when there are full crops much larger quantities, and as on account of its geographical advantages, the exports not only of the cereals but of cotton, cattle, tobacco, provisions and other commodities, as well as the imports of supplies. must continue to be enlarged, the saving to consumers and producers would form an economic basis of calculation in connection with national interests that cannot fail to secure the requisite support in Congress to obtain at no distant day the construction of this great highway.

Deepening of the Channel to the Port of Baltimore to 27 Feet at Mean Low Water.

The work of deepening the channel to the port of Baltimore to 27 feet at mean low water has progressed with great rapidity. There is now a channel 27 feet deep, which is in use and which is greatly promoting and facilitating the commerce of Baltimore. It is important and necessary however, for safe and reliable navigation for the very heavy ships now engaged in the commerce of this port, that the channel shall be made not less than 400 feet wide. It is anticipated, in view of the great interest so large a portion of the United States has in facilitating commerce through Baltimore, and in

promoting the economies of exporting and importing goods through this port, that early in the next session of Congress the requisite appropriation will be made to give this additional and effective advantage. In view of the great interests involved in perfecting this channel, it is most reasonable and proper that an additional appropriation should be made, especially when it is remembered that in 1872 and 1873 the City of Baltimore appropriated \$400,000 for this national improvement, and that this sum was expended by her tax-payers in assisting to effect the desired object. With an appropriation of \$450,000 by the next Congress, it is understood that this important work could be rapidly completed.

NEW GRAIN ELEVATOR AT CAMDEN STATION.

During the year a substantial and commodious brick elevator 70 feet wide, 160 feet long, and 120 feet high, has been erected at Camden Station for the storage of oats, rye, corn, barley, etc., for the local trade of the city. The building contains 78 bins of one car load capacity, 22 bins of three car loads capacity, 11 bins of four car loads capacity, and 7 bins of six car loads capacity, making a total of 118 bins with a capacity of 258,000 bushels. This elevator supplies an economical accommodation which has been much needed by the grain trade of the city, there having been no suitable storage facilities for such grain. Thus an accumulation of stock has been prevented, and consequently prices have been very irregular. This irregularity in prices has prevented the handling of oats for export, and hence Baltimore has been largely excluded from this export trade. It is confidently expected that the erection of this elevator will not only greatly facilitate and increase the trade of the city for local consumption, but will be the means of attracting to Baltimore an extensive trade in oats for foreign export through the Locust Point elevators. The immense

capacity of those elevators, four million bushels, can be used for the extension of this trade as well as for corn and wheat. It will be the policy of the Company to encourage in every practicable form both the home and export trade in this commodity.

The Board express with pleasure their continued appreciation of the successful management of the business of the Company through the faithfulness and efficiency of the officers and employes in all departments of the service.

By order of the Board,

JOHN W. GARRETT,

President.

Treasurer's Annual Statements.

A

STATEMENT OF THE ASSETS AND LIABILITIES OF THE

ASSETS.		
Cost of Road (including construction of new Stations, Buildings, Oats Elevator, &c., during the fiscal year). Second, Third and Fourth Tracks. Rolling Power.	\$25,885,908 40 6,002,010 36	
Real Estate	15,254,225 68 2.767,803 27	
Ohio River Bridges at Benwood and Parkersburg Metropolitan Branch Railroad	2,383,069 19 3,751,462 67	\$56 044 470 57
30,069 Shares of Stock, Baltimore and Ohio and Chicago Railroad Companies, of which 28,900 Shares have been transferred to Trustees for Sterling Loan redeemable		\$56,044,479 57
in 1927. Baltimore and Ohio and Chicago Railroad Companies, including advances for construction		1,503,450 00
Preferred Stock of Parkersburg Branch Hallroad Company.		4,581,389 45 5,680,684 94
Stocks and Bonds, including those of Municipal and Railroad Corporations Stock of the Washington County Railroad Company		4,160,954 84
Stock and Dept of the winchester and Strasburg Kanroad		766,290 33 593,643 85
Company	• • • • • • • • • • • • • • • • • • • •	1,028,000 00
Sinking Fund for the Redemption of Loan for account of	•••••	101,191 66
the Baltimore and Ohio and Chicago Railroad Com- panies, £53,649 at \$4.84. Stock of the Valley Railroad Company of Virginia		259,661 16
Stock and Preferred Stock of Newark, Somerset and Straits-		1,020,000 00
ville Railroad Company	•••••	288,079 25
Company. Transferred to and held by Trustees, viz: Stocks and Bonds, including those of Railroad Corporations Stock of the Central Ohio Railroad Company, as re-organized	\$3,987,308 10	50,500 00
Stock of the Central Ohio Railroad Company, as re-organized Stock of the Pittsburgh and Connellsville Railroad Company Mortgage Bonds of the Cincinnati, Washington and Balti-	231,082 34	
more Railroad Company	2,562,204 00 147,443 05	W 000 000 FW
Baltimore, Washington and Alexandria Branch of the Washington City and Point Lookout Railroad—Sinking		7,338,920 57
Fund transferred to Trustees Outstanding Accounts and Loans		44,044 24 136,698 92
Cash advanced to the Pittsburgh and Connellsville Railroad		0.000.040.04
Company, for payment of its debt, construction and cquipment Cash advanced to the Parkersburg Branch Railroad Co		3,938,319 04 302,363 62
Bills receivable	1	44,938 15 147,766 99 707,022 22
Uncollected Revenue Materials on hand in the Machinery Department— Main Stem	\$834,476 78	
Trans-Ohio	160,032 02	994,508 80
Road Department—Materials on hand—Main Stem Trans-Ohio	\$31,753 24 429,986 59	101 800 00
TREASURER—Balance on hand in the Treasury, after pay-		461,739 83
ment of \$184,638,25 for interest on the Bonds of the Conpany, which matures October 1st, 1883		847,949 15
		\$91,042,596 58

\mathbf{A}

BALTIMORE & OHIO RAILROAD COMPANY, 30TH SEPTEMBER, 1883.

LIABILITIES.		
Stock Stock Scrip not funded. Preferred Stock, dividends fixed and limited at six per ct Surplus Fund—which represents invested capital derived from net earnings, and which is not represented by either Stock or Bonds	8,866 00 5,000,000 00	
either Stock or Bonds	45,763,479 89	\$65,556,045 89
July Loan redeemable in 1885, with Coupons payable in April and October, originally Less payment on account	\$2,500,000 00 790,000 00	579,500 00
City Loan, originally	\$5,000,000 00 2,425,000 00	1,710,000 00
Sterling Loan redeemable in 1895. Coupons payable in March and September. £800,000, at \$4.84. Less for Sinking Fund, £330,457 0s. 6d. at \$4.84.	\$3.872,000 00 1,599,412 00	
Sterling Loan redeemable in 1902. Coupons payable in March and September, £2,000,000, at \$4.84. Less for Sinking Fund, £415,516 3s. 5d. at \$4.84.	\$9,680.000 00 2,011,098 25	
Sterling Loan redeemable in 1910. Coupons payable in May and November, £2 000,000, at \$4.84	\$9,680,000 00 1,089,563 77	
Sterling Five per cent. Loan, redeemable in 1927. Coupons payable in June and December. For account of Baltimore and Ohio and Chicago Railroad Companies—£1,600,000 at \$4.84. Secured by Bonds Baltimore and Ohio and Chicago Railroad Companies, held by Trustees, £1,600,000, at \$4.84.	\$7,744,000 00 7,744,000 00	
Loan redeemable in 1919. For Parkersburg Branch Railroad Company. Secured by Mortgage Bonds of the Parkersburg Branch Railroad Company, held by Trustees.	\$3,000,000 00	
Bond for purchase of the interest of the City of Baltimore in the Pittsburgh and Connellsville Railroad Company Less 8 Annual Payments on account, of \$40,000 each	\$1,000,000 00 320,000 00	
Bills Payable	•••••	680,000 00 511,093 89
Bonds to State of Maryland, due July 1, 1888. Coupons January and July, in settlement under Act of 1878, chapter 155, section 4		366,000 00
Third Mortgage Endorsed Bonds, originally \$500,000, reduced to Unclaimed Dues Washington Branch Road.	***********	140,000 00 110,863 14 282,167 68
		*91,042,596 58

 \mathbf{B}

STATEMENT OF THE EARNINGS AND WORKING EXPENSES

Of the Baltimore and Ohio Railroad Company, including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Lookout and the Somerset and Cambria Railroads, for the fiscal year ended 30th September, 1883.

Earnings of the Main Stem, including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Lookout and the Somerset and Cambria Railroads		\$ 11,579,839 25
Expenses of Transportation. General Expenses. Losses by Accidents, &c. Repairs of Railway Repairs of Locomotives. Repairs of Burden Cars. Repairs of Passenger Cars. Repairs of Stationary Machinery Repairs and Construction of Depots. Repairs of Water Stations. Repairs of Bridges Repairs of Telegraph Lines. Fuel Contingent Expenses of Machinery Department Cleaning Engines and Cars. Preparing Fuel and Filling Tenders. Pumping Water. Watching Cuts Watching Tunnels. Watching Bridges	200,733 89 56,609 68 796,575 85 624,146 36 709,028 67 299,386 71 118,276 66 186,663 06 13,039 13 58,574 31	6,147,655 80 \$5,432,183 45

Working Expenses, 53.08 per cent.

Treasury Department, Baltimore and Ohio Railroad Company, \ 30th September, 1883.

W. H. IJAMS, TREASURER.

W. H. IJAMS, TREASURER.

LJR.

CR.

TREASURER'S STATEMENT.	3	1
\$43,997,658 84 51,400 00 21,008 96 5,432,183 45 5,865 00	\$49,469,516 25	\$45,763.479 89 \$1,855,821 05
### Section October 1 By Balance at the credit of this account \$43,907,658 84 Rovember 1 Dividend of five per cent. for the six months ended September 301, 1882, upon 10,280 shares of the Washington Branch Stock owned by the Main Stem 51,400 00		October 1 By Balance brought down \$45,763,479 Showing the increase of the Surplus Fund during the fiscal year, \$1,855,831
October 1. November 1. 1883, April I' ". ".		October 1 ng the increas
\$739,185 00 739,190 00 739,190 00 37,751 22 27,000 00 5,229 00 89,250 00 89,250 00 29,922 66 29,922 66	\$49,469,516 25	Show
November 1. To Dividend of five per cent, upon the Capiliss. May 16	The second secon	
November 1. May 16 Septemb'r 30		

Treasury Department, Baltimore and Ohio Railroad Company, 30th September, 1883.

 \mathbf{D}

STATEMENT OF THE ASSETS AND LIABILITIES

Of the Washington Branch Road, 30th September, 1883.

ASSETS.

Road from Washington	Junction to Washington	City, Double
Track, with Real Est	ate, &c	\$1,650,000 00

Amount due by the Baltimore and Ohio Railroad Company..... 282,167 68

\$1,932,167 68

LIABILITIES.

Stock	\$1,650,000	00
Annuity (Principal)	20,000	00
Profit and Loss	262,167	68
	\$1 099 167	00

Treasury Department, Baltimore and Ohio Railroad Company, 30th September, 1883.

E

STATEMENT OF THE EARNINGS OF THE WASHINGTON BRANCH ROAD, AND EXPENDITURES OF THE ROAD DEPARTMENT, for the Fiscal Year ended 30th September, 1883.

		1
Earnings.	• • • • • • • • • • • • • • • • • • • •	\$346,505 27
Expenditures of the Road Department.		
Repairs of Railway Repairs of Depots Repairs of Water Stations. Pumping Water Repairs of Bridges	$\begin{array}{r} 1,886 \ 61 \\ 133 \ 66 \\ 5,979 \ 40 \end{array}$	124,257 52 \$222,247 75

Treasury Department, Baltimore and Ohio Railroad Company, 30th September, 1883.

F

Washington Branch Road, Profit and Loss Account for the Fiscal Year ended 30th September, 1883. DR.

CR.

\$217,057 75	223,247 75	\$439,305 50	\$262,167 68
Oct. 1 By Balance at the credit of this account \$\frac{1}{8}\$217,057 75	Sept. 30. " Earnings for the fiscal year ended 30th Sept., 1883\$346,505 27 Less Expenditures of Road Department	1	1883. Oct. 1 By Balance brought down \$262,167 68
1882. Oct. 1	Sept. 30.		1883. Oct. 1
\$82,500 00	82,500 00 11,137 82 1,000 00 262,167 68	\$439,305 50	
Nov. 1 To dividend of five per cent. for the half year ended 30th September, 1882	April 17. " dividend of five per cent. for the haif year ended 31st March, 1883		4
To dividend year en	divide year " Taxes " Payme " Balane		

Treasury Department, Baltimore and Ohio Railroad Company, } 30th September, 1883.

G

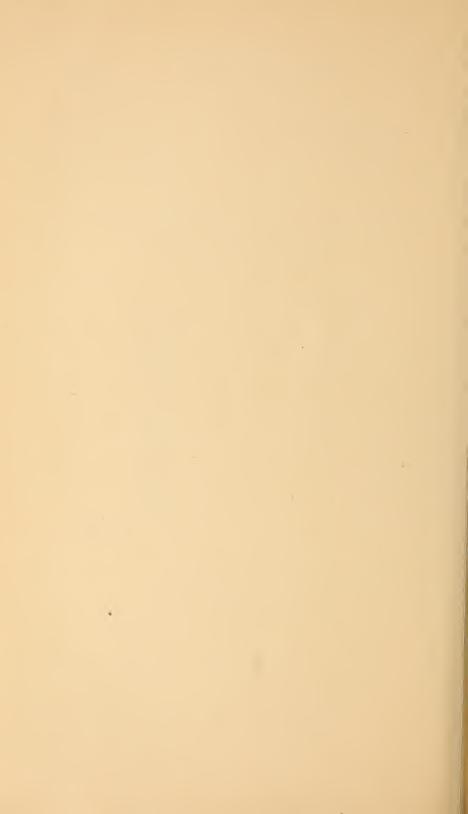
STATEMENT OF THE EARNINGS AND WORKING EXPENSES

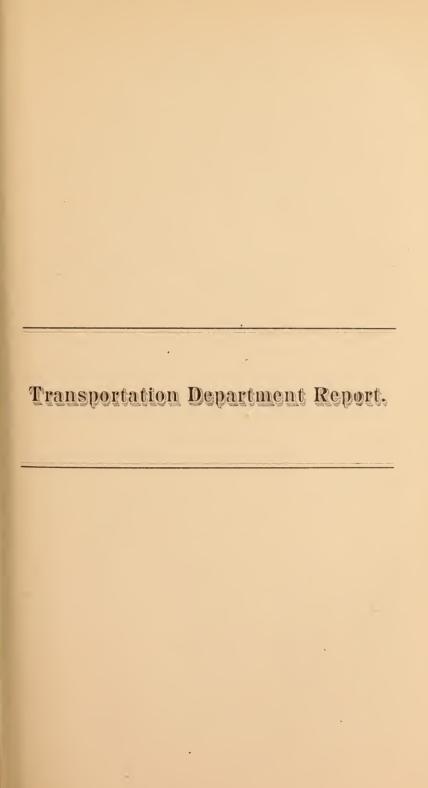
Of the Parkersburg Branch Railroad for the Fiscal Year ended 30th September, 1883.

Earnings		\$738,527 26
Expenses.		
Expenses of Transportation. Fuel Repairs and use of Locomotives. Repairs and use of Burden Cars. Repairs and use of Passenger Cars. Repairs of Stationary Machinery. Repairs of Depots. Contingent Expenses of the Machinery Departm't.	\$184,280 94 21,770 71 49,740 33 27,986 46 8,073 46 3,701 21 7,906 72 39 70	
Cleaning Engines and Cars Preparing Fuel and filling Tenders. Repairs of Railway Repairs of Water Stations. Repairs of Bridges. Repairs of Telegraph Pumping Water. General Expenses Taxes	6,669 75 890 31 131,303 55 1,832 87 6,204 49 1,493 34 3,913 71 5,201 86 15,772 24	
Losses by Accidents, &c	1,684 11	478,465 76 \$260,061 50

Working Expenses, 64.78 per cent.

Treasury Department, Baltimore and Ohio Railroad Company, a 30th September, 1883.







OFFICE OF THE MASTER OF TRANSPORTATION,

BALTIMORE AND OHIO RAILROAD COMPANY,

Baltimore, 1st October, 1883.

JOHN W. GARRETT, Esq.,

President.

SIR:—The following is a statement of the operations of this Department for the fiscal year ended 30th September, 1883.

THE REVENUES.

The usual statements, with the comparisons and summaries, are herewith presented:

A

STATEMENT OF REVENUE

Earned on the MAIN STEM of the Baltimore and Ohio Railroad, including the WINCHESTER AND POTOMAC, WINCHESTER AND STRASBURG, the STRASBURG AND HARRISONBURG, the METROPOLITAN BRANCH, the WASHINGTON CITY AND POINT LOOKOUT and the SOMERSET AND CAMBRIA RAILROADS, from 1st October, 1882, to 30th September, 1883.

MONTHS.	Revenue from Passengers.		Total Revenue.
October, 1882	\$178,383 10	\$808,802 55	\$ 987,185 65
November "	139,781 11	909,457 87	1,049,238 98
December "	150,541 51	860,826 77	1,011,368 28
January, 1883	118,654 12	704,135 57	822,789 69
February "	105,197 93	663,602 54	768,800 47
March "	142,489 27	810,454 95	952,944 22
April "	166,700 97	651,777 42	818,478 39
May "	180,687 59	722,621 28	903,308 87
June "	195,368 71	724,028 82	919,397 53
July "	197,398 41	733,237 98	930,636 39
August "	215,450 45	981,427 46	1,196,877 91
September "	229,630 83	989,182 04	1,218,812 87
Totals	\$2,020,284 00	\$9,559,555 25	\$11,579,839 25

\mathbf{B}

STATEMENT OF REVENUE

Earned on the WASHINGTON BRANCH of the Baltimore and Ohio Railroad from 1st October, 1882, to 30th September, 1883.

MONTHS.	Revenue from Passengers.	Revenue from Tonnage.	Total Revenue.
October, 1882 November " December " January, 1883 February " March " April " May " June "	\$22,668 81 20,514 26 19,509 92 16,252 43 14,885 18 18,147 13 18,878 18 20,943 26 22,006 69	7,892 97 8,165 77 7,412 71 7,080 90 6,762 30 6,837 39 6,835 81 5,997 57	24,909 43 25,715 57 27,799 07 28,004 26
July "August "September "Totals.	$ \begin{array}{r} 21,702 \ 55 \\ 28,301 \ 44 \\ 27,623 \ 71 \\ \hline 8251,433 \ 56 \end{array} $	11,280 35 10,392 26	28,651 73 39,581 79 38,015 97 \$346,505 27

STATEMENT OF REVENUE

Earned on the PARKERSBURG BRANCH of the Baltimore and Ohio Railroad, 'from 1st October, 1882, to 30th September, 1883.

MONTHS.	Revenue from Passengers.		Total Revenue.
October, 1882. November " December " January, 1883. February " March " April " May " June " July " August " September "	\$19,157 99 16,337 34 19,133 68 14,287 63 13,305 09 16,842 77 17,182 09 18,489 00 21,897 99 19,650 16 21,675 66 26,378 87	4 48,051 96 8 47,753 75 9 35,610 97 9 37,865 96 7 48,494 85 9 38,970 00 3 36,740 68 3 38,435 79 3 37,397 96 3 45,001 64	55,229 71 60,333 71 57,048 11 66,677 27
Totals	\$224,338 09	\$514,189 24	\$738,527 26

D

SUMMARY OF REVENUE FOR THE ENTIRE ROAD FOR 1883,

Compared with the Revenue for the fiscal year ended 30th September, 1882.

MAIN STEM,

Including the WINCHESTER AND POTOMAC, WINCHESTER AND STRASBURG, the STRASBURG AND HARRISONBURG, the METROPOLITAN BRANCH, the WASHINGTON CITY AND POINT LOOKOUT, and the SOMERSET AND CAMBRIA RAILROADS.

Date.	Passengers.	Tonnage.	Total.
For 1883		\$9,559,555 25 8,634,168 43	\$11,579,839 25 10,556,569 60
Increase	\$97,882 83	\$925,386 82	\$1,023,269 65

PARKERSBURG BRANCH RAILROAD.

Date.	Passengers.	Tonnage.	Total.
For 1883	\$224,338 02 205,617 74	\$514,189 24 419,047 56	\$738,527 26 624,665 30
Increase	\$18,720 28	\$95,141 68	\$113,861 96

WASHINGTON BRANCH RAILROAD.

Date.	Passengers.	Tonnage.	Total.
For 1883	\$251,433 56 266,011 54	\$95,071 71 88,344 91	\$346,505 27 354,356 45
Increase	\$14,577 98	\$6,726 80	\$7,851 18

	Passengers.	Tonnage.	Total.
Main Stem	\$2,020,284 00 224,338 02 251,433 56	\$9,559,555 25 514,189 24 95,071 71	346,505 27
Totals	\$2,496,055 58	\$10,168,816 20	\$12,664,871 78
Main Stem	\$1,922,401 17 205,617 74 266,011 54	419,047 56	
Totals	\$2,394,030 45	\$9,141,560 90	\$11,535,591 35
Increase	\$102,025 13	\$1,027,255 30	\$1,129,280 43

OPERATIONS OF THE MAIN STEM.

PASSENGER TRANSPORTATION.

It is shown by Table D that the receipts from passengers for 1882, were \$1,922,401.17, and for 1883, \$2,020,284,00, exhibiting an increase of \$97,882.83.

TONNAGE TRANSPORTATION.

The receipts from tonnage transported on the Main Stem in 1882, as shown by Table D, were \$8,634,168.43, and in 1883, \$9,559,555.25, exhibiting an increase of \$925,386.82.

3

Total number of tons Through Merchandise, East and West,
for the fiscal year ended 30th September, 1883
The same for fiscal year ended 30th September, 1882
Increase

5269,42

COMPARATIVE STATEMENT OF GRAIN, &c., received at Baltimore during the fiscal years ended 30th September, 1882 and 1883.

the fiscal years enace	. Som Repremoe	., 1002 and 1000.			
		1882.	1883.		
Corn, bushels. Wheat, " Barley, " Rye, " Oats, "		$\begin{array}{ccc} & 6,586,814 \\ & 7,891 \\ & 53,209 \end{array}$	6,647,595 1 14,250 74,500		
Total bushels			12,831,761 8,343,240		
Increase			4,488,521		
Flour brought to Baltimore— In 1882			702,975 "		
Increase.			95,937 bbls.		
Live Stock brought to Baltimore— In 1882		~	90,628 "		
			,011		
Lumber brought to Baltimore—					
Decrease					
COA	AL TRADE.				
Coal and Coke transported on inclusive of the Company's suppoduct delivered at various points	the Main Ster	n and Branches,	2,585,011 tons. 409,695 "		
Leaving amount transported for t	he public		2,175,316 tons.		
Date. Delivered at Locust Point.	Delivered at places in Baltimore.	Delivered at Way Stations, and points West	Total.		
In 1882 1,599,594 tons. In 1883 1,584,329 "	71,503 tons. 76,021 "	463,503 tons. 514,966 "	2,134,600 tons. 2,175,316 "		
Decrease 15,265 tons. Increase	4,518 tons.	51,463 tons,	40,716 tons.		
COAL AND COKE.					
Total Coal and Coke transported on the Main Stem and Branches . 2,585,011 tons. Pittsburgh Division					
Total Coal and Coke transpor	ted	•	5,676,837 tons.		

STATEMENT showing the EXPENSES OF TRANSPORTATION on the MAIN STEM for the fiscal year ended 30th September, 1883, as compared with the same items for the fiscal year 1882.

	1882.		1883.	
Agents and Clerks	\$258,244	68	\$274,069	82
Passenger Conductors, Baggage Masters and	00.000	01	077 000	00
Brakemen	80,308		87,028	
Tonnage Conductors and Brakemen	270,477		284,915	
Tonnage Enginemen	214,931		228,365	
Tonnage Firemen	100,712		105,505	
Passenger Enginemen	80,277		82,812	
Passenger Firemen	38,902		40,013	
Tonnage Teamsters	2,004	00	2,312	
Depot Laborers, handling cars and freight	332,133	49	340,868	34
Maintenance and Renewal of Stock and Har-				
ness	5,669	21	925	61
Oil	102,531	76	93,026	55
Tallow	41,247	22	43,371	32
Waste	35,803	76	34,663	01
Stationery, Printing and Advertising	59,222		47,302	
Gas and Candles	14,783		13,274	23
Miscellaneous and Contingent, including expenses of Locust Point Elevators and Balti-	2-,		23,	
	357,995	20	454,424	വ
more and Ohio Express				
Eastern and Western Agencies	105,134		111,186	
Telegraph Operators	157,827	07	241,982	20
Totals	\$2,258,207	54	\$2,486,047	39

STATEMENT showing the EXPENSES OF TRANSPORTATION on the PARKERSBURG BRANCH for the fiscal year ended 30th September, 1883, as compared with the same items, for the year 1882.

	1882.	1883.
Agents and Clerks	\$20,844 22	\$21,172 45
Tonnage Conductors and Brakemen Passenger Conductors, Baggage Masters and	22,483 59	22,790 33
Brakemen	8,470 55	8,711 25
Tonnage Enginemen	18,326 18	19,151 72
Passenger Enginemen	10,046 80	9,929 38
Tonnage Firemen	6,149 81	6,386 42
Passenger Firemen	5,028 70	4,950 73
Depot Laborers	25,981 24	26,530 55
Oil	9,694 84	8,535 44
Tallow	3,108 60	2,875 66
Waste	3,049 45	3,019 27
Stationery, Printing and Advertising	7,563 59	5,602 57
Miscellaneous and Contingent, including Gas,		
Candles and Express Expenses	15,491 99	16,552 06
Eastern and Western Agencies	15,198 43	17,663 01
Telegraph Operators	10,490 19	10,410 10
Totals	\$181,928 18	\$184,280 94

Respectfully submitted,

W. M. CLEMENTS,

Master of Transportation.

Road Department Report.



OFFICE OF THE MASTER OF ROAD,

BALTIMORE AND OHIO RAILROAD COMPANY,

Baltimore, 1st October, 1883.

JOHN W. GARRETT, Esq., President.

SIR:—I submit herewith statement of the operations of the Road Department for the fiscal year ended 30th September,1883.

REPAIRS OF RAILWAY.

This Department expended \$796,575.85 for repairs of railway, embracing the maintenance of the road, renewal of ballast, and all labor and materials used in the repairs of track. This amount, compared with that of the fiscal year 1882, shows a decrease of \$206,673.51.

Maintenance of Road, consisting of surfacing, ditching, maintaining original width of road-bed and removing slips, cost \$23,459.25, showing a decrease of \$617.00 compared with the same account for the fiscal year 1882.

Renewal of Ballast.—On this account there was expended \$55,438.39, showing an increase of \$14,198.79.

Labor and Materials for Repairs.—The amount expended in repairs for labor and materials has been:

F	or	Labor	 	 	 .\$445,119.80
	46	Materials.	 	 	 272,558.41
		Total	 	 	 \$717,678.21

Showing a decrease of \$220,255.30, compared with the same account for the fiscal year 1882.

RECAPITULATION.

Maintenance of Road\$2	3,459.25
Renewal of Ballast5	5,438.39
Labor and Materials for Repairs71	7,678.21
Total	6,575.85

3128 tons of new steel rails were used in repairs, and 319,271 crossties.

Cost of	Watching	Cuts\$30,546.15
44	44	Tunnels

Maintenance of Bridges.—Repairs and Rebuilding. There were expended on this account:

For Labor\$29,2	56.50
" Materials	17.81
Total	74.31

The details of which are as follows: Reese's Trestle, 700 ft. long, repaired by putting in new caps, posts and sills. Highway bridge at Ellicott City rebuilt. Rebuilt and repaired two culverts west of Monrovia, containing 130 cubic yards of masonry. Renewed floor in Highway bridge near Ijamsville. Rebuilt culvert west of Peacher's Mill, containing 105 cubic yards of masonry. Took down No. 34, iron bridge, and substituted 15 inch I beams, built two new piers and two retaining walls containing 264 cubic yards of first-class masonry. The following bridges have been repaired and adjusted: Nos. 40, 41, 42, 43, 44, 50, 55, 57, 60, 63, 69, 113, 114, 119, 120, 121, 122, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 139, 140, 141, 142, 143, 144, 145, 146, 149, 153. Bridge No. 59 renewed by putting in 15 inch I beams under tracks, new ties, guard rails and wall plates, total length 140 feet. Renewed both tracks on No. 64 bridge, total length of each 431 feet. Culverts at Sykesville, Ijamsville, Duffields, North Mountain and Paxton's Cut, and on second and third sub-divisions, containing 480 cubic yards of masonry repaired. At Oakland, 75 cubic yards, and Cameron, 131 cubic yards masonry rebuilt. Bearing and guard timbers, ties, rail-joists, etc., renewed on bridges Nos. 77, 86, 87, 88, 91, 100, 112, 118, 124, 147, 148, 154. Bridges Nos. 102 and 103 renewed with I beams and bearing timbers. Floor beams and towers renewed on bridge No. 123. Bridge No. 138 renewed with I beams, ties, bearing and guard timbers, and stonework rebuilt, containing 222 cubic yards of first-class masonry. Highway bridge at

McMechen's Cut rebuilt. Openings on 6th, 8th and 10th sub-divisions renewed.

Cost of Watching Bridges.....\$18,736.58

Maintenance of Depots and Buildings.—The expenditure on this account was \$186,663.06. At Locust Point, repaired bulk heads at pier 28, 150 feet long, at coffee warehouse, 216 feet long, and at elevator A, 130 feet long. Repaired east side and end of wharf at elevator A, by cutting off piles two feet and cribbing with 12 by 12 timber to proper height, put on new floors, side wharf 10 by 205 feet, and end wharf 12 by 103 feet. Replaced iron wharf with a bulkhead. Repaired piers 6 and 7 their entire length. Repaired barges B and E, from water line up. At Camden Station, coal chutes, new sills, posts and braces, and floor repaired. At Mt. Clare, repaired floor in boiler shop, and put new floor in smith's shop. Put new block floor in oil-house at Russia, and repaired coal dumps. At Ellicott City, fitted up waiting rooms, ticket and telegraph offices, and repaired passenger platform. Coal chutes at Plane No. 4 repaired. At Sandy Hook, repaired engine house by putting in new floor, and 4720 square feet new metal roof. At Martinsburg, renewed 912 square feet of roofing on machine shop, also 2300 square feet of flooring in boiler shop. Coal chutes at Cherry Run repaired. Company's houses at Sleepy Creek thoroughly repaired. At Cumberland, Queen City Hotel has been thoroughly overhauled and repainted, new roof put on the gas machine, and a fence 18 by 20 feet built around same. Repaired slate roofs at bar mill and round house. Built 290 feet of fence at Company's houses. At Keyser, scale pit walled up and 202 feet of 3 inch pipe laid, and an office 7 by 9 feet, 7 feet high, with metal roof, has been built. At Piedmont, roofs of engine house, machine shop, carpenter and paint shops painted, and coal chutes repaired. At Grafton, 213 squares of metal roof renewed and painted, also roofs of blacksmith shop, carpenter shop, and freight depot. A battery house, for telegraph department, 16 by 30 feet, 12 feet high, with metal roof, has been built. At Glover's Gap, a new telegraph office 12 by 18 feet, 12 feet high, with metal roof, has been built. At

Wheeling, passenger and freight platforms repaired, and 392 feet of 3 inch pipe laid to shops. At Bellaire, cattle pens, 200 feet new fence built, 2600 feet fence repaired, 1200 lineal feet of stalls put in, 200 feet 4 inch pipe laid, and general repairs made. Between Baltimore and Cumberland 2532 feet of platforms have been renewed and extended, and between Cumberland and Wheeling 2680 feet.

Maintenance of Water Stations.—The expenditure on this account was \$13,039.13, the details of which are as follows: At Locust Point, renewed two tubs, 20 feet diameter 12 feet high; at Riverside, pumps, penstocks and pipes repaired; at Baileys, penstocks and pipes repaired; at Sykesville and Slabtown, pumps, pipes and penstocks repaired; at Martinsburg, new penstocks put up; at Cherry Run put in new boiler, new tub 12 feet diameter and 12 feet high, and built new coal bin; at Sir John's Run, renewed sills under tub; at No. 12 Water Station, put in new pump, laid 60 feet 11/2 inch pipe, and repaired pipes and penstocks; at Cumberland, renewed three penstock pits in yard; at Rawlings, 360 feet of 6 inch terra cotta pipe laid and house painted; at Keyser, pumps and pipes repaired; at Piedmont, pumps and pipes repaired, and new penstock put up; at Oakland, new penstock frame put up, boiler pipes and penstocks repaired, and a new coal house 12 by 15 feet, 8 feet high, with metal roof, built; at Rowlesburg, new penstock frame put up, boiler, pumps and pipes repaired; at Valley Falls, tub renewed, 20 feet diameter, 12 feet high, and boiler pipes and penstock repaired. Boilers, pipes and penstocks repaired at Newburg, Grafton, Farmington, Mannington, Burton, Littleton and Moundsville. At Cameron, penstock pit repaired with stone coping 8 by 10 feet and boiler pumps, pipes and penstocks repaired; at Wheeling, tub stand renewed and general repairs made.

Cost of Pumping Water.....\$28,217.28

WINCHESTER AND POTOMAC AND WINCHESTER AND STRASBURG ROADS.

Between Harper's Ferry and Strasburg, 6½ miles have been laid with iron rails, and 14,813 cross-ties have been used. Bridges Nos.

15, 33, 37 and 39 rebuilt. Put in new culverts near 26th and 30th miles, containing 134 cubic yards masonry. Built 256 square feet platform at Halltown, and repaired 350 square feet. Rebuilt 240 sq. feet platform at Charlestown, 400 square feet at Wadesville, 450 square feet at Vaucluse, 600 square feet at Cedar Creek, 700 square feet at Capon Road. Built sand house at Aldridge 8 by 10 feet, 8 feet high, with metal roof. Repaired water station at Stephenson's, and put in new pump. Engine house at Winchester repaired. Renewed flooring in engine house at Strasburg Junction. Put in 22 new cattle stops on line of road.

STRASBURG AND HARRISONBURG ROAD.

Between Strasburg and Harrisonburg 4½ miles have been laid with iron rails, and 15,724 cross-ties have been used. Rebuilt 2640 square feet of platforms on line of road. Bridges Nos. 66, 67 and 74 renewed and No. 82 rebuilt. Repaired seventy open culverts. Water stations at Edinburg and Broadway repaired.

METROPOLITAN BRANCH.

589 tons of steel rails and 10,015 cross-ties have been used. Bridges Nos. 5, 9, 11, 13, 14, 15, 16, 17, 19, 20, 22, 23, 24, 25, 28, repaired. The following platforms have been renewed and extended; Brooks, 270 feet; Queenstown, 365 feet; Terra Cotta, 100 feet; Rockville, 395 feet.

WASHINGTON CITY AND POINT LOOKOUT BRANCH.

4,336 cross-ties have been used in renewals. All bridges have been kept in good condition.

WASHINGTON BRANCH ROAD.

Repairs of Railway.—The expenditure on this account was \$115, 448.31, of which \$5,460.75 was for ditching and maintaining roadbed, and \$14,761.50 for ballast. There were used in track 1814 tons of steel rails and 30,452 cross-ties.

Repairs of Water Stations.—The expenditure on this account was \$133.66.

Cost of Pumping Water......\$5,979.40

Repairs of Depots and Buildings.—The expenditure on this account was \$1,886.61. At Jessups, a new freight shed 12 by 24, 11 feet high, with metal, roof has been built. At Hyattsville, new fence 1200 feet long, 4 rails high, and at Muirkirk, 736 feet long, 4 rails high, have been built. The following platforms have been renewed and repaired: Elkridge, 108 feet; Hanover, 172 feet; Jessups, 330 feet; Annapolis Junction, 570 feet; Shipleys, 75 feet; Contees, 425 feet; Muirkirk, 425 feet; Ammendale, 150 feet; Beltsville, 660 feet; Sunnyside, 160 feet; College, 427 feet; Riversdale, 150 feet; Hyattsville, 700 feet; Highlands, 150 feet; Montello, 190 feet; Rives 161 feet, and Washington City, 480 feet.

Repairs of Bridges.—The expenditure on this account was \$809.54. Bridges Nos. 5, 6 and 10 adjusted. Highway bridge at Muirkirk repaired.

PARKERSBURG BRANCH ROAD.

Repairs of Railway.—The expenditures on this account were, viz.
For Labor and Materials for Repairs\$113,379.06
" Renewal of Ballast
" Maintenance of Road
Total\$131,303,55

As compared with 1882 this amount shows a decrease of \$22,888.25. There were used on this branch 351 tons of steel rails and 49,760 cross-ties.

Repairs of Water Stations.—The expenditure on this account was \$1,832.87.

Cost of Pumping Water.....\$3,913.71

Repairs of Bridges.—The expenditure on this account was \$6,204, 49. Chords, ties, bearing and guard timbers renewed on bridges Nos.10, 12, 16, 17, 18, 19, 20, 22, 24, 25, 27, 35, 36, 52. Bridges Nos. 1, 2, 3, 4, 5, 37, 47, 49, 55, adjusted and repaired. Bridge No. 9, renewed with ties and I beams.

Repairs of Depots and Buildings.—The expenditure on this account was \$7,906.72. The following structures have been built, each with stone foundation, and metal roof: At Flemington, a new brick de

pot 20 by 40 feet, 12½ feet high, with passenger platform 6 by 148 ft. and freight platform 8 by 40 feet; Pennsboro, a new brick depot, 18 by 40 feet, 12½ feet high; Toll Gate, a new depot 13½ by 40 feet, 12½ feet high; Ellenboro, a new depot 16 by 40 feet, 13 feet high. Passenger platforms renewed at Simpson's, 152 ft., Cherry Camp, 168 feet, and Smithton, 275 feet.

CONSTRUCTION—MAIN STEM.

There have been laid 2,57 miles of additional sidings between Locust Point and Wheeling. Doe Gully Tunnel has been widened to 26 feet for double track, total length 1218 feet. At Buckeye, 4535 cubic yards of first-class masonry have been built, in addition to the 1095 feet reported last fiscal year. About one-half of the filling has been done.

SECOND TRACK.

3½ miles of second track have been laid at Wheeling.

DEPOTS AND BUILDINGS—CONSTRUCTION.

At Belt's wharf, a new freight shed 41 feet wide, 155 feet long, and one story 11½ feet high, metal sides and roof, and an office 20 feet wide by 29½ feet long, one story 8½ feet high, metal sides and roof have been built. At Chase's wharf, a new freight shed 33 feet wide, 160 feet long, one story 12 feet high, metal sides and roof, has been built, and wharf extended 168 feet. At Locust Point, piers 31 and 32 have been extended 120 feet in width and 403 feet in length, with a platform, 4 feet wide, covered with a shed 108 feet wide and 397 feet long, one story 17 feet high, metal sides and end, and slate roof. At Camden, a new oats elevator, 70 feet wide and 160 feet long, 120 feet high, with four elevators, and containing 118 bins, with a capacity of 258,000 bushels, has been built. At Mt. Clare, a new passenger car shop 245 feet in diameter, to contain 22 stalls, is now being built of brick with slate roof, also a new wagon shed, 167 feet 4 inches long, 28 feet wide, one story, average height 17½ feet, is now being built of brick, with slate roof. The new bridge shop, 70 feet wide by 300 feet long, one story 20 feet high, brick, with slate roof,

has been completed, and has been furnished with all the modern machinery necessary for the construction of iron bridges. At Relay, a new green-house of brick, 11 by 75 feet, 6 feet high, has been built. This green-house has been arranged to supply plants not only for the Company's garden at Relay, but also at Cumberland, Deer Park, Oakland and Buck Horn, on Cheat River grade. At Lake Youghiogheny, a new ice house 40 by 80 feet, 18 feet high, a dwelling 22 by 32, 2 stories high, with metal roof and stone foundation, and a tool house 16 by 22 feet, 10 feet high, have been built. At Terra Alta, a new depot has been built of brick, with slate roof and stone foundation, containing a general waiting room $16\frac{1}{2}$ by 20 feet, a ladies' waiting room 15 by 21 feet, a freight room, 18 by $21\frac{1}{2}$ feet, and a telegraph office 10 by $21\frac{1}{2}$ feet. Cranberry Summit was the former name of the town of Terra Alta. The change was made by the Town Council.

Respectfully submitted,

S. R. JOHNSTON,

Master of Road.

Machinery Department Report.



OFFICE OF THE MASTER OF MACHINERY,

BALTIMORE AND OHIO RAILROAD COMPANY,

Baltimore, 1st October, 1883.

JOHN W. GARRETT, Esq., President.

Sir:--I submit herewith report of the operations of this Department for the fiscal year ended September 30th, 1883. My predecessor, Mr. N. E. Chapman, resigned the position of Master of Machinery on the 30th of April last.

STATEMENT OF EXPENSES OF THE MACHINERY DEPARTMENT

From 1st October, 1882, to 30th September, 1883.

MAIN STEM,

Including the Winchester and Potomac, Winchester and Strasburg, the Strasburg and Harrisonburg, the Metropolitan Branch, the Washington City and Point Lookout, the Washington Branch, and the Somerset and Cambria Railroads.

Repairs and Rebuilding of Locomotive Engines	\$624,146	36
Repairs of Passenger, Sleeping and Parlor Cars	299,386	71
Repairs and Rebuilding of Tonnage Cars	523,960	28
Repairs and Rebuilding of Coal Cars	128,924	31
Repairs and Rebuilding of Stock Cars	56,144	08
Repairs and Operating of Stationary Machinery	118,276	66
Cleaning Engines and Cars and putting away Engines.	92,415	36
Preparing Fuel and Filling Tenders	20,096	37
Contingent Expenses	7,186	12
Fuel		
		-\$2,189,679 61

PARKERSBURG BRANCH.

Repairs of Locomotive Engines	49,740	33
Repairs of Passenger Cars	8,073	
Repairs of Tonnage Cars	21,323	33
Repairs of Coal Cars	1,663	99
Repairs of Stock Cars	4,999	14
Repairs of Stationary Machinery	3,701	21
Cleaning Engines and Cars and putting away Engines.	6,669	75
Preparing Fuel and Filling Tenders	890	31
Contingent Expenses	39	70
Fuel	21,770	71

118,871 93

The equipment of locomotive engines is, namely:	
In service 30th September, 1882	
Built in the fiscal year of 1883 30	
Total	
Less withdrawn from the service	
Present equipment	

These 30 engines were built at the Mount Clare Works. 22 are of the consolidation pattern for freight traffic, with cylinders 20 by 24 inches, 50 inch driving wheels, 8 drivers connected, with a two wheel pony truck, weighing 107,250 pounds; 2, with cylinders 17 by 24 inches, and 4 drivers of 50 inches each in diameter, weighing 67,050 pounds, for use at Chicago for switching purposes; 3, for passenger service, with cylinders 19 by 24 inches, and three with cylinders 18 by 24 inches and four drivers of 69 inches each in diameter, weighing 91,000 pounds. Eight of the engines replace that number withdrawn from the service. Twenty-two of the 30 engines, costing \$216,443.56, have been charged to rolling power, and 8, costing \$62,527.02, have been charged to the repair account.

COMPARISON OF MILES RUN BY LOCOMOTIVE ENGINES.

	Main Stem.		Wash. Branch.	Total.
1882 1883		1,013,011 1,029,780	845,952 857,483	10,232,009 10,744,957
Increase	484,648	16,769	11,531	512,948

During the year 149 engines have received thorough repairs costing \$259,917.16. The motive power is in excellent condition.

The car equipment is as follows:

In service 30th September, 1882	.15,897
Added in fiscal year of 1883	
Less broken up and worn out	1,442
	4 * 000

17,339

These 1,442 cars cost \$808,372.85, and have been charged to rolling power. The entire number of 1,981 cars has been built and rebuilt at the Company's shops. The cars thus built and rebuilt by the Company consist of 15 eight wheel passenger, 51 feet 8½ inches

long, with large windows and double blinds, finished in the interior with solid mahogany and bronze trimmings, decorated with oak head linings removable in sections and furnished with three double burner bronze lamps; one car for postal service, with six wheel trucks; one baggage car, 51 feet 8½ inches long, with standard trucks and all modern conveniences; 207 eight wheel stock cars, 33 feet long, each of 40,000 pounds capacity and equipped with the air brake; 34 eight wheel iron coal cars, each of 40,000 pounds capacity, and 4 of 26,000 pounds capacity; 812 eight wheel house cars, 33 feet long, each of 40,000 pounds capacity; 520 eight wheel house cars, 28 feet long, each of 40,000 pounds capacity; 10 express cars, 45 feet long; 139 gondola, 2 hopper gondola, 3 flat bottom, 1 rigger, 15 caboose, and 217 side dump cars. Five hundred and thirty-nine cars, costing \$162,260.99, built to replace those lost to the service, have been charged to the repair account. The capacity of 194 cars has been increased from 26,000 to 40,000 pounds at a cost of \$28,291.02, which has been charged to the repair account. 178 house cars have been arranged for ventilation and fitted with air brakes, and 22 arranged for ventilation, costing \$7,265.05. 683 cars have received thorough repairs at the cost of \$145,005.06, and 204 have been repainted costing \$13,845.41. \$8,046.90 have been charged for new and additional plant in shops, as follows: for Cumberland, one upright drill press; and for Mount Clare, one boring machine, one mortising machine, one hand planer, one large timber planer, one punching and shearing machine, one 33 inch exhaust, one 8 inch dynamo-electric machine, one 50 inch car wheel boring machine and one blower. The stationary machinery and tools are in good condition.

The destruction by fire of the passenger car shop at Mount Clare on the night of January 3d, 1883, caused an estimated loss to cars and materials of \$33,256.13. The cars destroyed consisted of one sleeping, one officers', one parlor and four passenger cars in shop for repairs, valued at \$19.331.99; also, nine passenger cars in course of construction, costing \$12,871.75, which, together with material valued at \$1,052.39, have been charged to repairs.

There have been added to the plant of the mill at Cumberland during the year, 5 sets of rolls for making 6 inch and 15 inch channel iron, 6 inch angle iron and 4 inch and 6 inch T iron; also one set of chill rolls for the new 12 inch train; one pair of new steam shears for cutting scrap iron, and one pair of new steam shears for cropping bar iron. This new plant cost \$8,191.77, and has been charged to construction. The furnaces, buildings and machinery of the mill are in good working condition. The operations for the year have been very satisfactory.

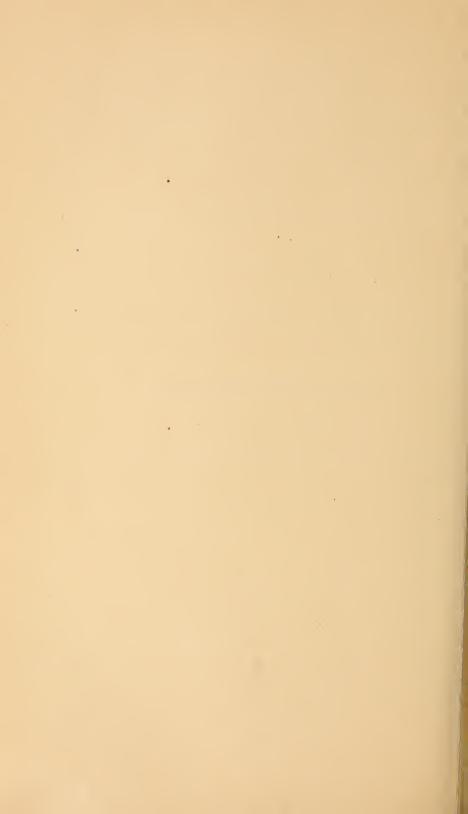
I have to express my acknowledgments to the officers and employees of this Department for their efficient service.

Respectfully,

A. J. CROMWELL,

Acting Master of Machinery.

Trans-Ohio Divisions.



Baltimore and Ohio Railroad Company, TRANS-OHIO DIVISIONS, .

OFFICE OF GENERAL MANAGER,

NEWARK, O., 1st October, 1883.

JOHN W. GARRETT, Esq., President.

Sir:—I submit herewith statement of the operations of the Trans-Ohio Divisions for the fiscal year ended 30th September, 1883.

CENTRAL OHIO DIVISION.

Comparison of Earnings and Expenses for the fiscal year 1883 with 1882.

	1882–1883.	1881–1882.
Earnings. Expenses	\$1,103,838 65 716,050 21	\$987,401 99 672,469 73
Earnings more than Expenses	\$387,788 44	\$314,932 26
Miles run by Engines	1,502,343	1,472,177

ROAD DEPARTMENT.

Railway.—86 tons of steel rail and 441 tons of iron rail have been laid in the track between Bellaire and Newark. Seven miles of track between Bellaire and Newark, and 4½ miles between Newark and Columbus have been reballasted. 49,300 cross-ties have been placed in the track between Newark and Bellaire, and 23,757 between Newark and Columbus. Included in this number are those laid in new sidings, of which 2,770 feet have been laid between Bellaire and Newark, and 275 feet between Newark and Columbus. 18.56 miles of wire fence have been built between Bellaire and Newark, and 8.64 miles between Newark and Columbus. Three new cattle guards have been built, and eighteen rebuilt between Bellaire and Columbus. Safety gates, with a neat octagonal watch box, have been erected at the Fifth Street crossing, Zanesville. 13½ yards of masonry have been built in repairs to the tunnel at Barnesville. At Zanesville,

changes have been made in the yard tracks, and some additional siding laid to accommodate the new depots at this point. On the Columbus and Newark Division, grading for a second track has been commenced between the following points: Columbus and Caldwell, Alum Creek and Big Walnut, and Lockport and Granville Junction.

Bridges.—Two trussed girder bridges, of 32 feet span each, have been rebuilt at Columbia. Bridge No. 17 has been replaced with an iron truss of 72 feet span, and 40 yards of masonry built in new bridge seats. 43½ yards of masonry have been built for bridge seats at bridge No. 19, and an iron truss 90 feet 5 inches span has been erected in place of the former truss. At bridge No. 22, 63 vards of masonry have been built, preparatory to erecting an iron bridge at this point. At bridge No. 41, 551 yards of masonry have been built for bridge seats, and an iron truss of 132 feet 6 inches span erected in place of the former wooden bridge. 571 vards of masonry have been built for bridge seats at bridge No. 42, and an iron truss of 127 feet 6½ inches span erected in place of the former truss bridge. These iron bridges were all constructed at the Company's shop at Mt. Clare, and are handsome and substantial structures. Each of these bridges, together with iron bridge No. 37, has been painted during the year. At Campbell's, a new stone culvert, containing 124 yards of masonry has been built. At Bellaire, the street bridge has had the floor and sidewalk renewed.

Depots and Buildings.—The round house and car shop at Bellaire have been reroofed. At Lewis' Mill, an addition 13 by 16 feet has been built to the depot. At Barnesville, the agent and telegraph operators have had convenient offices fitted up in the depot building. The space formerly occupied for these offices has been added to the waiting room for passengers at this station. A coal house 8 by 10 feet, and a watch box 6 by 6 feet has been built at this point. At Spencer's a coal house 8 by 10 feet has been built, and the stock yards rebuilt. At Norwich, an addition to the passenger platform 33 feet long, and a coal house 8 by 10 feet have been built. At Zanesville, a passenger depot 30 by 102 feet, of pressed brick with

moulded brick and terra cotta trimmings and slate roof, and supplied with all the modern improvements, has been built, affording comfort to passengers and convenience and economy to the Company in handling its business. The depot formerly used for passengers, measuring 30 by 200 feet, has been converted into a freight depot and offices, and a shed with slate roof, 30 by 220 feet, erected on the north end of the building. The lot and alley way in the rear of the building have been filled, macadamized and converted into a commodious and substantial roadway, as an approach to the freight depot. A system of underground sewerage has been provided at these depots, insuring perfect drainage to the buildings and grounds. The favorable location of the Company's passenger and freight houses enables patrons of the road to reach either without crossing any tracks. 7,940 square feet of passenger platform, and a car inspector's house 8 by 12 feet, have also been built, and the stock vards rebuilt. 486 feet lineal of passenger platform have been rebuilt at Franklin, Burton's, Cassell's and Claypool's. All other buildings and depots have been kept in good repair.

Water Stations.—Two new penstocks have been erected at Zanesville, and 275 feet of 6 inch and 175 feet of 4 inch pipe laid in connection therewith. At Barnesville, a brick reservoir of a capacity of 50,000 gallons, and supplied from a natural flow, has been built; 200 feet of 6 inch pipe have been laid connecting it with the penstock. All other water stations have been maintained in good working order.

LAKE ERIE DIVISION.

Comparison of Earnings and Expenses for the fiscal year 1883 with 1882.

	1882–1883.	1881–1882.
Earnings. Expenses.	\$999,128 38 707,347 22	\$940,768 94 706,067 89
Earnings more than Expenses	\$291,781 16	\$234,701 05
Miles run by Engines	1,320,012	1,274,653

ROAD DEPARTMENT.

Railway.—44 tons of steel rail and 635 tons of iron rail were laid in the track. 19.74 miles of track have been reballasted. 40,079 cross ties have been placed in the track, included in which number are those laid in sidings, of which 1.58 miles have been laid. 7.79 miles of wire fence have been built; 16 new cattle guards have been erected and 12 rebuilt. 922 feet of additional ore storeage trestle work have been built at Sandusky, and the necessary tracks laid.

Bridges.—Truss bridges Nos. 2 and 3 have been reroofed. Iron bridge No. 10, destroyed by high water in February last, has been temporarily replaced with three spans of trussed girders, each 32 feet long, with trestle approaches. 113 feet lineal of trestle work have been rebuilt; on 343 feet of trestle work iron I beams have been substituted for wooden stringers, and the ties and tie-stays renewed on 388 lineal feet of trestle work. 40 yards of masonry have been built in culvert one mile north of Spring Mill, and 42 yards in culvert three miles north of Shelby. All other bridges and trestles have been kept in good repair.

Depots and Buildings.—At Newark, a new brick freight depot with slate roof, 40 by 122 feet, and a two story addition, 40 by 50 feet, for offices and storage have been built on the city side of the tracks; a macadamized roadway 40 feet wide in the rear, and opening upon a street and alley has been constructed, by which the freight house can be reached without crossing any tracks. At the shops a scale test house 20 by 30 feet has been built; 18 yards of masonry laid in ash pits and 36 yards in foundation for machinery, and 260 feet of 6 inch pipe laid in the system of fire protection. At Mt. Vernon, a coal house 8 by 10 feet has been built, and the interior of the depot painted. Two stock pens 46 by 46 feet each have also been built. At Mansfield, an engine house 20 by 60 feet has been built, new floors have been laid in the freight house, and the freight platform 8 by 175 feet has been rebuilt. At Higbee, the crossing of the New York, Chicago and St. Louis Road, a joint passenger and freight depot 20 by 34 feet, and platform 12 by 200 feet, have been built.

At Chicago Junction, an addition 25 by 72 feet has been made to platform, and 40 by 200 feet rebuilt. At Sandusky, property has been purchased for passenger depot purposes on Warren Street, between Washington and Market, the dwelling upon the site converted into a passenger depot, and 10,072 square feet of passenger platform built. The grounds have also been graded and enclosed with a neat and substantial fence. former passenger shed is being removed and will be re-erected as a car shop, and changes and additions are being made to the shop buildings. A part of the former passenger shed is being added to the shop buildings, and other changes are being made to facilitate shop work. A tool house 8 by 12 feet has been built, the docks extensively repaired, and the coal trestles and platforms partially renewed and repaired. At Fredericktown, the depot and warehouse have been repaired and painted, and a new stock chute built. At Plymouth, the depot and warehouse have been repaired and painted. The depots at Lexington, Centerton and Prout's have been repaired and painted. At Hunt's, stock yards 50 by 50 and 60 by 60 feet have been built. All other depots and buildings have been kept in good repair.

Water Stations.—At Newark, a frost proof tub 16 by 20 feet has been rebuilt. At Lexington, a frost proof tank 16 by 20 feet has been rebuilt. At Mansfield, a frost proof tank 12 by 20 feet has been built, and 26½ yards of masonry built in foundation. At New Haven, a new tub 11 by 20 feet has been placed in the station. All other water stations have been kept in good working order.

STRAITSVILLE DIVISION.

Comparison of Earnings and Expenses for fiscal year 1883 with 1882.

	1882-1883.	1881–1882.
Earnings. Expenses.	\$164,781 04 145,269 39	\$188,937 47 175,859 15
Earnings more than Expenses	\$19,511 65	\$13,078 32
Miles run by Engines	289,308	285,819

ROAD DEPARTMENT.

Railway.—579 tons of steel rail and 541 tons of iron rail have been laid in the track. 8.03 miles of track have been reballasted. 19,632 cross ties have been placed in the track, included in which number are those laid in new sidings, of which 200 feet have been laid. 4.27 miles of wire fence have been built and 15 cattle guards rebuilt. Bristol tunnel has been extensively repaired; 77 feet lineal of trestle work have been filled and converted into embankment. An extension of the line has been built 2.85 miles up Rock Run; 27,629 cubic yards of graduation have been finished, 543 feet lineal of trestle work built and 2.85 miles of track laid with steel rail. The entire extension is being enclosed with a wire fence, and cattle guards are being placed at all road crossings.

Bridges.—The bridge at the National pike, Somerset, 90 feet long, has been rebuilt. Iron girders 32 feet long have been substituted for wooden ones in bridges Nos. 3, 11 and 12. 151 feet lineal of trestle work have been rebuilt, and on 350 feet lineal, the ties and tie-stays have been renewed. 28 feet lineal of box sewer have been built. All bridges and trestles have been kept in good repair.

Depots.—At Somerset, a coal house 10 by 12 feet, and 1,306 square feet of passenger platform have been built. At Shawnee, the depot has been newly roofed and painted. All other depots and buildings have been kept in good repair.

All Water Stations have been kept in good repair.

CHICAGO DIVISION.

Comparison of Earnings and Expenses for the fiscal year 1883 with 1882.

	1882–1883.	1881–1882.
Earnings	\$1,878,167 22 1,304,664 10	\$1,692,006 57 1,245,600 01
Earnings more than Expenses	\$573,503 12	\$446,406 56
Miles run by Engines	2,034,651	2,118,914

ROAD DEPARTMENT.

Railway.—2,829 tons of steel rail have been laid in the track. 200,146 cross ties have been placed in the track, included in which

number are those laid in new sidings. 101 cattle guards have been rebuilt, and 14.68 miles of wire fence erected.

Bridges.—Trestles 65, 74, 90, 96, 113, 119, 132, 157, 247, 255, 290, 300, 335, have been rebuilt with wooden trestles, and iron I beam stringers. 1,485 feet lineal of trestles have been rebuilt and 3,500 feet lineal have been extensively repaired. The county road bridge east of Defiance has been rebuilt. The lateral rods in the bridge across the Sandusky river, at Tiffin, have been raised to 19 feet above the rail. The deck ties and tie stays on the Calumet river bridge have been renewed. All other bridges and trestles have been kept in good repair.

Depots and Buildings.—2,490 square feet of freight platform have been rebuilt at Attica. At Bloomdale, the depot building has been rebuilt, with a bay window 4 by 8 feet, and 1,100 feet of passenger platform. At North Baltimore, 500 square feet of platform have been rebuilt. At Defiance, 3,150 square feet of platform have been rebuilt. At Hicksville, 400 square feet of floor in the elevator have been renewed. At Garrett, the carpenter shop has been rebuilt; 2,330 square feet of floor in the round house and 4,870 square feet in the machine shop have been renewed; 1,218 lights in the skylight in the machine shop have also been renewed. At Avilla, 2,050 square feet of platform, and at Milford Junction, 2,220 square feet have been rebuilt. At Bremen, the old depot has been moved and fitted up for a dwelling. At Walkerton, the coal chutes have been extensively repaired. At Alida, the passenger platform and stock yards have been rebuilt. At Suman, the stock yards have been rebuilt. At South Chicago, the ash pit has been rebuilt, and the depot building painted. The team track, at Chicago, containing about 115,000 feet of lumber has been moved and relaid on the Company's ground. The exterior of the hotels at Chicago Junction and Garrett, and the depots at Deshler, Defiance, Teagarden, Walkerton, Wellsboro, and 100th Street, South Chicago, have been painted. All other depots and buildings have been kept in good repair.

All Water Stations have been kept in good repair.

Construction.—5.13 miles of siding have been laid; 16 new cattle guards, and 6 miles of wire fence have been built; 78 miles of track have been reballasted, 9.23 miles with stone and 68.77 miles with gravel. The double track, now being built from the passenger depot at South Chicago to Illinois Central crossing, has been graded, and the track nearly completed. The rail in the double track from Parkside to South Chicago has been changed from iron to steel, and is being retied and surfaced. 10,301 feet lineal of trestle work, containing 81,903 cubic yards of earth, have been filled and converted into embankment. At trestle 168, 279 yards of masonry have been built in abutments for wagon way, upon which iron box beams 21 feet long have been placed, and 309 yards of masonry built in stone arch for water way. At trestle 288, 152 yards of masonry have been built for wagon way abutments, and iron box beams 17 feet long placed upon the same. At Tiffin, an iron bridge across the tracks at Sandusky Street, 103 feet span, has been erected under a joint contract by the B. & O. and the Pennsylvania Companies, and 59 cubic yards of masonry have been built in the abutments erected by this Company. The Auglaize river bridge, which was damaged by high water in February, 1883, is now being raised above the high water mark. 644 yards of ashlar masonry have been built in two abutments and two piers at St. Joe river, upon which three spans of iron truss, built at the shops of the B. & O. Co., Mt. Clare, are now being erected. At Chicago Junction, a side walk 150 feet long and a building for train-men's supplies and boxes have been erected. Area walls are being built around the hotel building, the cellars lowered and steam heaters put in the building. At Attica, a new passenger depot 20 by 40 feet with bay window 4 by 9 feet and slate roof has been built. The old passenger depot has been moved, raised, remodelled and painted for a freight depot; 440 square feet of platform and a coal house 8 by 10 feet have been built. At Tiffin, a standard 34 feet track scale with stone foundations has been erected. At Fostoria, an L shaped building 28 by 36 feet and 13 by 22 feet, and 2,500 square feet of platform have been built at the junction with the Columbus, Hocking Valley and Toledo Road, for interchange

of business; a coal house 10 by 12 feet has also been erected at this station. At North Baltimore, an addition 18 by 30 feet and bay window 4 by 9 feet have been made to the depot, the interior of the old portion refloored and 550 square feet of platform built. At Hamler, a freight house 16 by 20 feet and 800 square feet of platform have been built. At Holgate, a side walk 6 by 80 feet has been built. At Defiance, a freight house 26 by 68 feet and 1,428 square feet of platform have been built. At Sherwood, the freight house has been moved to the passenger station, and remodeled and repaired, and 520 square feet of platform built. At Mark Center, freight house 16 by 20 feet and 475 square feet of platform have been built. At Garrett, a store room for Road Department 18 by 24 feet, a gasoline house 8 by 10 feet and 3,017 feet of picket fence around the shop grounds have been built. The two rooms in the east end of the depot building have been made into one for the use of the Telegraph Department and a battery room fitted up in the cellar. In the waiting room, an office for Superintendent of Transportation has been partitioned off. At Avilla, the station has been rebuilt and a bay window 4 by 8 feet and baggage room 8 by 16 feet added to the same. At the junction with the Grand Rapids and Indiana Road a joint freight house 20 feet wide and fronting 30 feet on each road, with 660 square feet of platform, have been built. At Bremen, a new depot 20 by 60 feet with bay window 4 by 10 feet and slate roof, coal house 8 by 12 feet, 1,417 square feet of platform and 1,430 square feet of cinder side walks have been built. At La Paz, 800 square feet of freight platform have been built. At Alida, a power house 24 by 24 feet has been built at the elevator. At McCool's, a depot 16 by 30 feet, stock pens 50 by 50 feet and 120 square feet of platform have been built; a wagon scale has also been erected. At South Chicago, an addition to the transfer house 18 by 32 feet, covered with iron, an ice house $24\frac{1}{2}$ by $80\frac{1}{2}$ feet, a watch box 8 by 8 feet at 92d Street have been built, and a picket fence around the Company's ground is being built; a standard track scale and a suspension scale with stone foundations for each, and a scale house 8 by 10 feet have also been erected. At Chicago, a new brick passenger depot 33 by 125 feet,

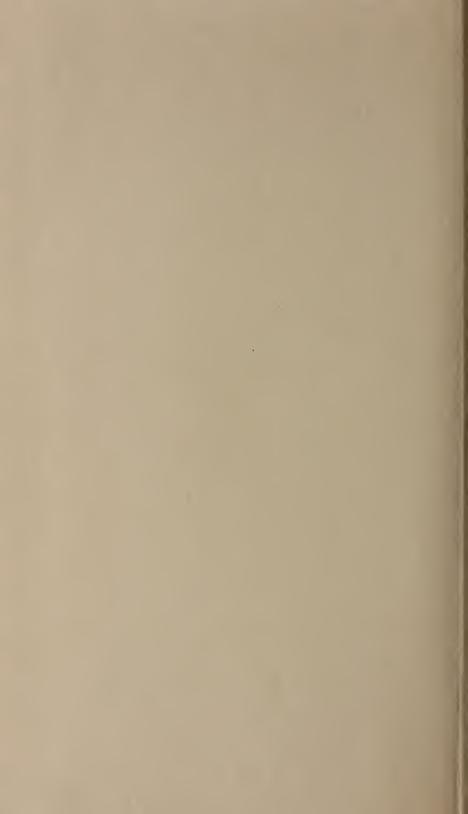
containing two waiting rooms, emigrant room, ticket and express offices, and baggage room on the first floor, and telegraph, dining car supply and conductors' rooms and general offices on the second floor, the whole building heated with steam, has been erected; an iron shed, 26½ by 125 feet and 31 by 140 feet, with 20,164 square feet of platform have been built in connection therewith. 4,480 square feet of plank way have been laid between the armories; a track scale with stone foundations, 345 square feet of freight platform and 10,560 square feet of freight driveway have been built. The water station one mile west of Wellsboro has been moved to the station, and 12 new wells sunk, affording an abundance of water for engines.

Respectfully submitted,

B. DUNHAM,

General Manager Trans-Ohio Divisions.





DO NOT CIRCULATE

